

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (CURRENTLY AMENDED) An optical switch for an optical network using wavelength division multiplexing, said switch having a multigranularity architecture and said switch includingcomprising:

- p1 input ports receiving p1 respective wavelengths, p2 output ports, and first switching means for switching the wavelengths received at said p1 input ports selectively to said p2 output ports, ~~and/or~~

- q1 input ports receiving q1 respective bands of wavelengths, q2 output ports, and second switching means for switching the bands of wavelengths received at said q1 input ports selectively to said q2 output ports, and wherein said second switching means is dedicated to switching the bands of the wavelengths without proceeding to a spatial separation of the wavelengths which constitute the bands, and/or

- r1 input ports receiving r1 respective groups of bands, r2 output ports, and third switching means for switching the groups of bands received at said r1 input ports selectively to said r2 output ports, and wherein said third switching means is dedicated to switching the groups of bands without proceeding to a spatial separation of either of the bands or of the wavelengths which constitute the groups of bands,

wherein said switch further comprises ~~including~~ at least two of said first, second and third switching means, which ~~consist of~~ comprise a single switching matrix able to couple any of said $p1+q1+r1$ input ports to any of said $p2+q2+r2$ output ports.

2. (CURRENTLY AMENDED) The switch claimed in claim 1, ~~including~~ comprising an internal rearrangement area ~~including~~ comprising, ~~on the one hand~~, a set of group of bands to band at least one of a plurality of demultiplexers and/or band to wavelength demultiplexers, and, ~~on the other hand~~, a set of wavelength to band multiplexers and/or band to group of bands multiplexers.

3. (CURRENTLY AMENDED) The switch claimed in claim 2, further ~~including~~ comprising an input interface ~~consisting~~ comprising ~~of at least one of~~ a set of group of bands to band demultiplexers and/or band to wavelength demultiplexers and an output interface ~~consisting~~ comprising ~~of at least one of~~ a set of wavelength to band multiplexers and/or band to group of bands multiplexers.

4. (CANCELED)..

5. (NEW) The switch claimed in claim 1, comprising an internal rearrangement area comprising at least one of a set of wavelength to band multiplexers and band to group of bands multiplexers.

6. (NEW) The switch claimed in claim 5, further comprising an input interface comprising at least one of a set of group of bands to band demultiplexers and band to wavelength demultiplexers and an output interface comprising at least one of a set of wavelength to band multiplexers and band to group of bands multiplexers.

7. (NEW) The switch claimed in claim 6, wherein said output interface further includes at least one of a plurality of wavelength converters, bands of wavelength converters, and regenerators.